



INTRACOM
T E L E C O M

Η Ελλάδα στη νέα εποχή της
τηλεϊατρικής: Καινοτόμες
εφαρμογές στην υπηρεσία του
πολίτη

Φώτης Κουρής
Business Development Manager e-Health

70%

international
activities



45+

years of experience



1,600

employees worldwide



**A global telecommunication systems and solutions
vendor with extensive know-how and a proven track
record.**

4

R&D
centers



8,700m²

production facilities in
the EU





Core Offerings – Markets Served

CORE OFFERINGS



Wireless
Network Systems



Telco & Enterprise
Software Solutions



ICT Services - Smart City
& Surveillance Solutions



Energy
Solutions

MARKETS SERVED



Telecom



Utility
Companies



Smart Cities



Healthcare



Public Sector



Financial
Sector



Transport
& Transit



Hospitality



Surveillance
& Security



Telemedicine Solution Essentials



Telemedicine Solution

Telemedicine is the use of telecommunication and information technology to provide clinical health care from a distance. It has been used to overcome distance barriers and to improve access to medical services that would often not be consistently available in distant rural communities



Key technological trends in telehealth



Supported Applications

Remote Consultation & Critical Care
Monitoring



Home Care & Ambulatory



Second Opinion



Medical Education



Innovative Use of Technologies & Applications

Reduction of Equipment Volume



Use of Big data & A.I. for Personalized Provision of Healthcare



Decision Support Systems



Provision of Medical Resources rather Medical Space



Medical Wellness



Telemedicine Architecture

Central Hospital

Two Distinct Solutions

Remote Clinic

Collaboration Endpoint

Medical Devices

All-in-one touch enabled PC

Home Care

Second Screen

Medical Devices

Laptop

The number of Branches is limited only by resources and licenses

Technical Highlights

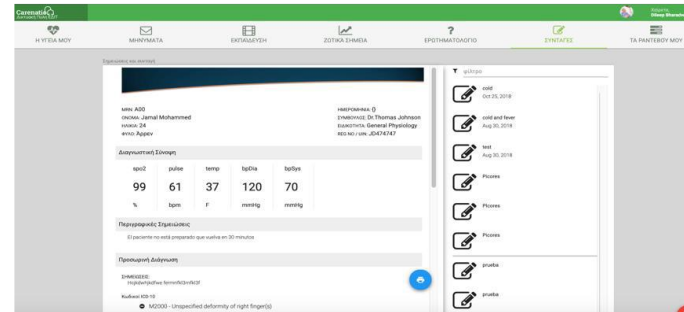
- Scalable and open platform
- Video Collaboration
- Messaging
- Data Analytics
- Flexibility in the selection of medical devices
- Integration with other legacy systems using ICD10 and HL7 protocols
- Embedded DICOM Viewer for Medical Imaging Viewing
- Integrates with different available conferencing devices and vendors (i.e. Cisco Systems, Polycom etc.)
- Ease of use with laptops, tablets and mobile devices
- Solution built with security and Medical Data protection as the main concern



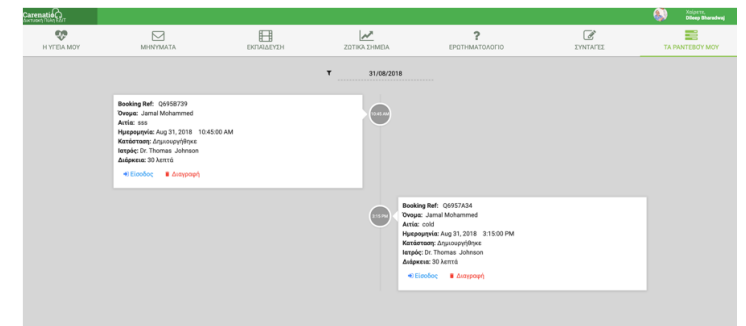
Telemedicine Software



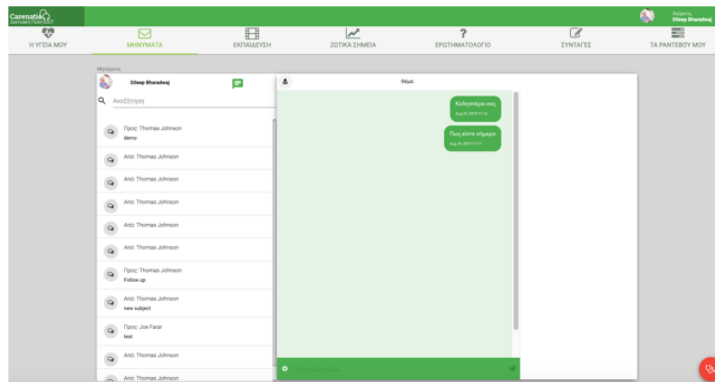
Login Screen



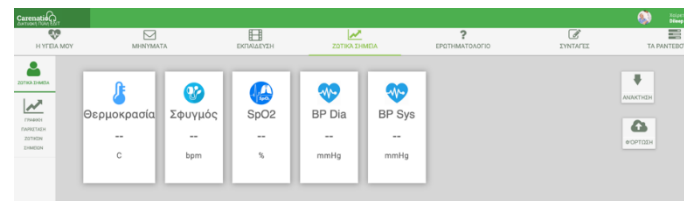
E-Prescription



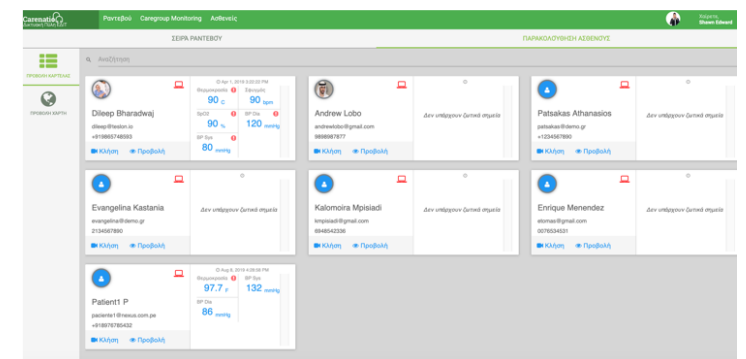
Easily manage appointments



Messaging App



Real-Time Data transfer



Physician Availability

Supported Medical Devices (indicative)



High Resolution Diagnostic Camera



Endoscope/Dermatoscope



Stethoscope & Cardiograph

Spirometer



Ultrasound



Vital Sign Monitor



Any type of medical graded device capable to connect to internet or has BlueTooth/ WiFi/Lan connection can be supported

Mobile Telemedicine Kit



Telemedicine Backpack



Deployed Vital Signs Monitor



Easily Organized Equipment

- Ability to communicate remotely with medical consultants (using video conferencing, chat, mail) on an emergency and regular basis.
- Supports the regular monitoring of specific patients at home with equipment that the social services have with them (Home Help, Community Medicine Programs, Health Visitors)
- The case of each mobile unit includes:
 - ✓ Tablet with telecommunication connection (Wi-Fi or 4/5G)
 - ✓ Medical equipment for monitoring vital signs depending on the condition
- Supports all Digital Medical devices
- It is possible to monitor a large number of patients from a central dashboard

*Photos from actual equipment

Integration of Big Data & A.I. to Support Provision of Personalized Medical care



Improve Diagnosis



Analyze Data from Electronic Health Records

Identification of patterns that support prevention and spreading of viral diseases



Predictive Analytics



All or selected patients install on iOS or Android mobiles / tablets an intuitive healthcare application, which they can:

- Remotely communicate with medical consultants (using video conferencing, chat, mail) on an emergency and regular basis
- Registration and transfer of basic health control indicators (temperature, oxygen, blood pressure, sugar levels, etc.).
- Sensors (eg oximeter, glucometer, pressure, temperature, urea, ECG, etc.) to measure your biomarkers at any time.
- All sensors send data wirelessly.

Additional Features

- Reminders for taking medication or measuring biomarkers.
- Information on medical issues related to his health condition and the care of himself and his environment.
- Use of self-assessment questionnaires of their health status (general questionnaires for assessment of physical and mental health and well-being)
- Billing and Payment

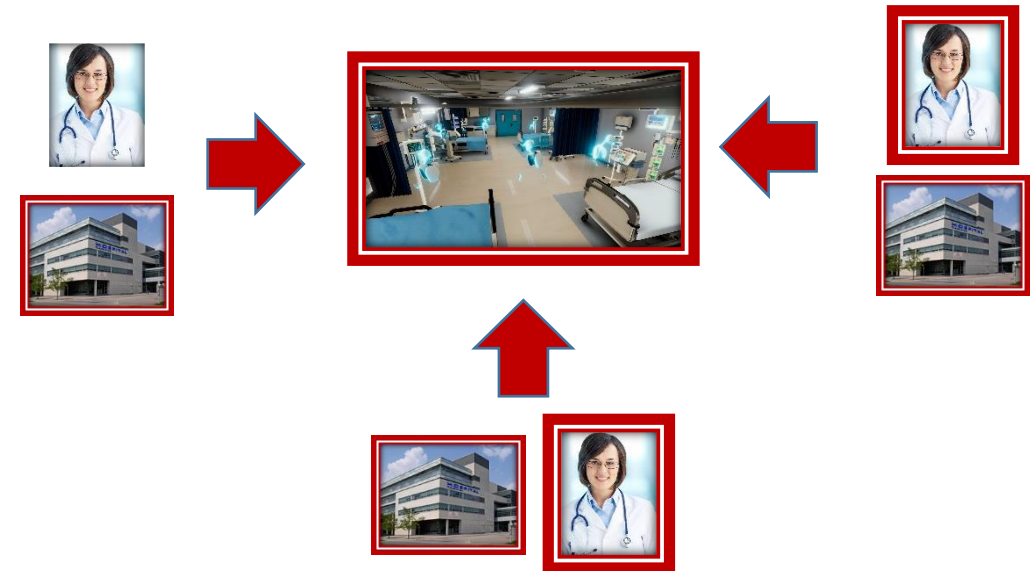


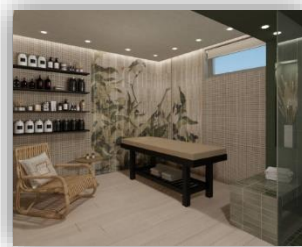
Creation of a Virtual Hospital

Traditional Model of Telemedicine Service Delivery:
Extending the Healthcare Delivery Space



Novel Model of Telemedicine Service Delivery:
Provision of Medical Resources of various
specialties to a point of care







1

Case Studies National Telemedicine Network



Available Services



Tele-Consulting

A doctor to doctor communication for a second opinion of a medical case



Emergency Telemedicine

Timely and immediate medical care in emergency cases



Tele-Training

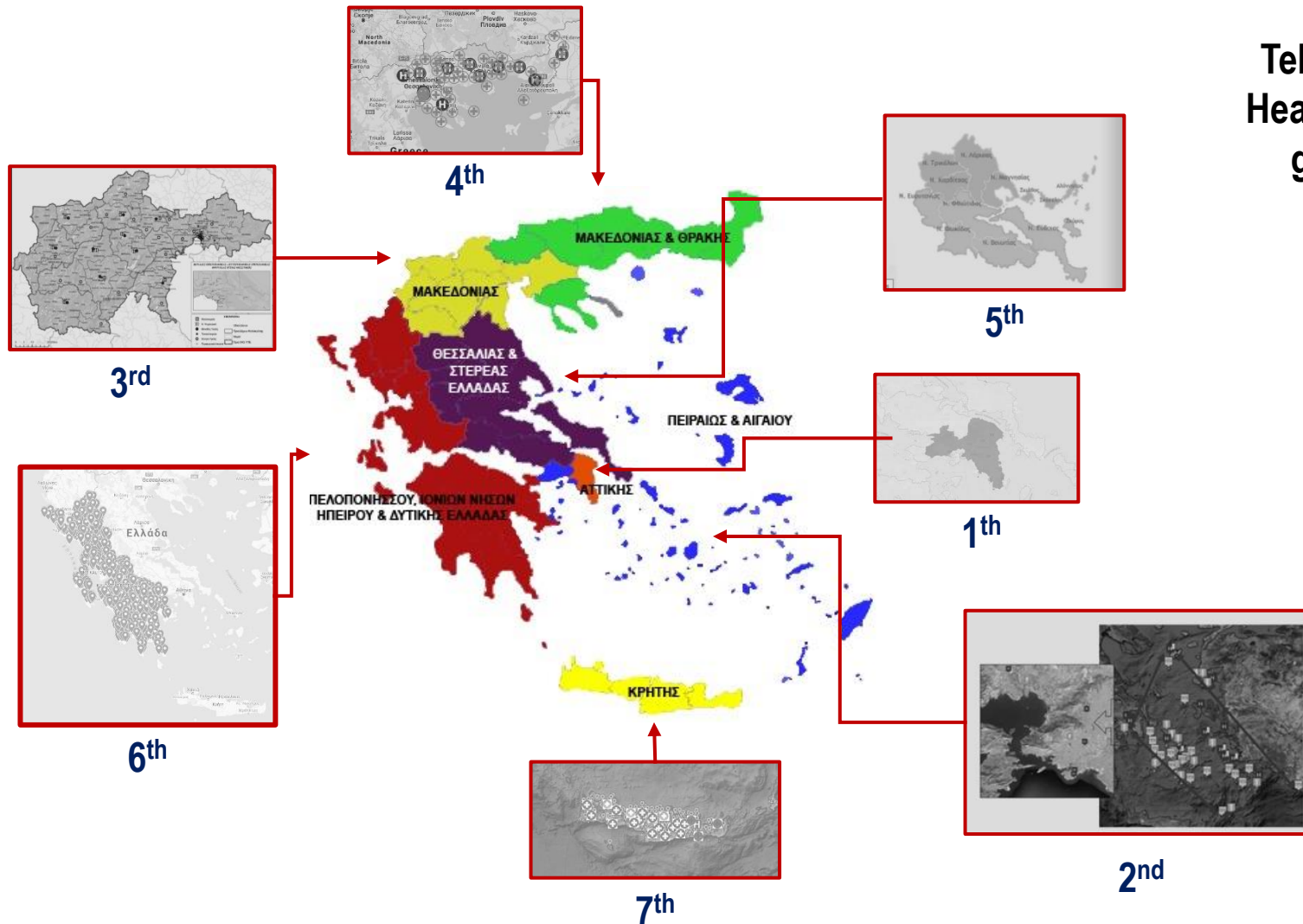
Educational seminars for doctors and other medical staff and administration



Tele-Psychiatry

Sessions on several sensitive group of patients

National Telemedicine Project Overview



Telemedicine solution deployed to the rest of the HealthCare Prefectures (YPE), thus completing the goal of providing Tele Health to all of Greece.

Project Summary

- **450** Medical Stations
 - **55** Consulting Hospitals
 - **305** Patient Endpoints
 - **5** Training Stations (Patient & Physician)
- **25** Mobile Telemedicine Carts
- **500** Physician Tablets
- **3500** Homecare Delivery Tablets
- **4** Control Centers



Additional Applications of Mobile Packs:

- *Homecare*
- *Emergency Services Support*



2

Case Studies
Armed Forces



Telemedicine for the Hellenic Navy



- **2** Physician Endpoints (Naval Hospital of Athens & Naval Hospital Crete)
- **10** Mobile Telemedicine Kits to support the fleet
- Integration with the National Telemedicine Network
- Proven operability with the fleet in the Red Sea





3

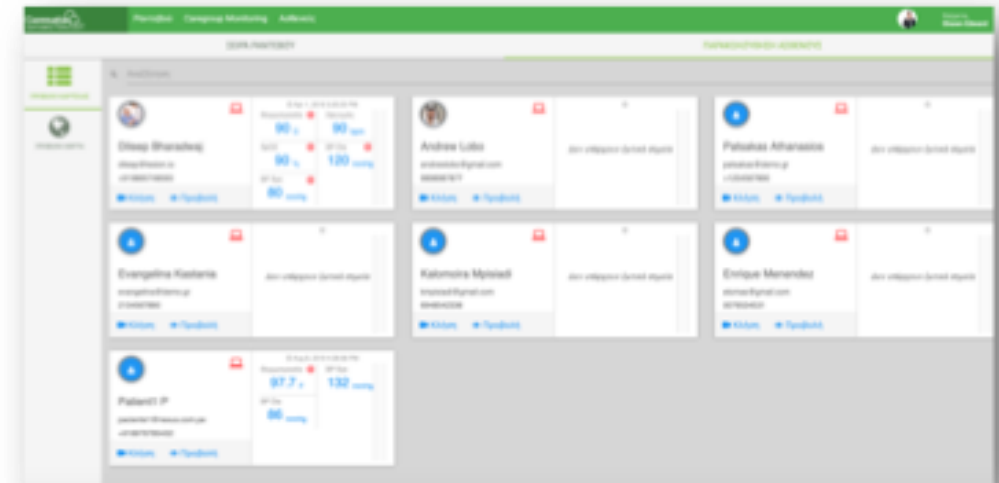
Case Studies
Municipalities

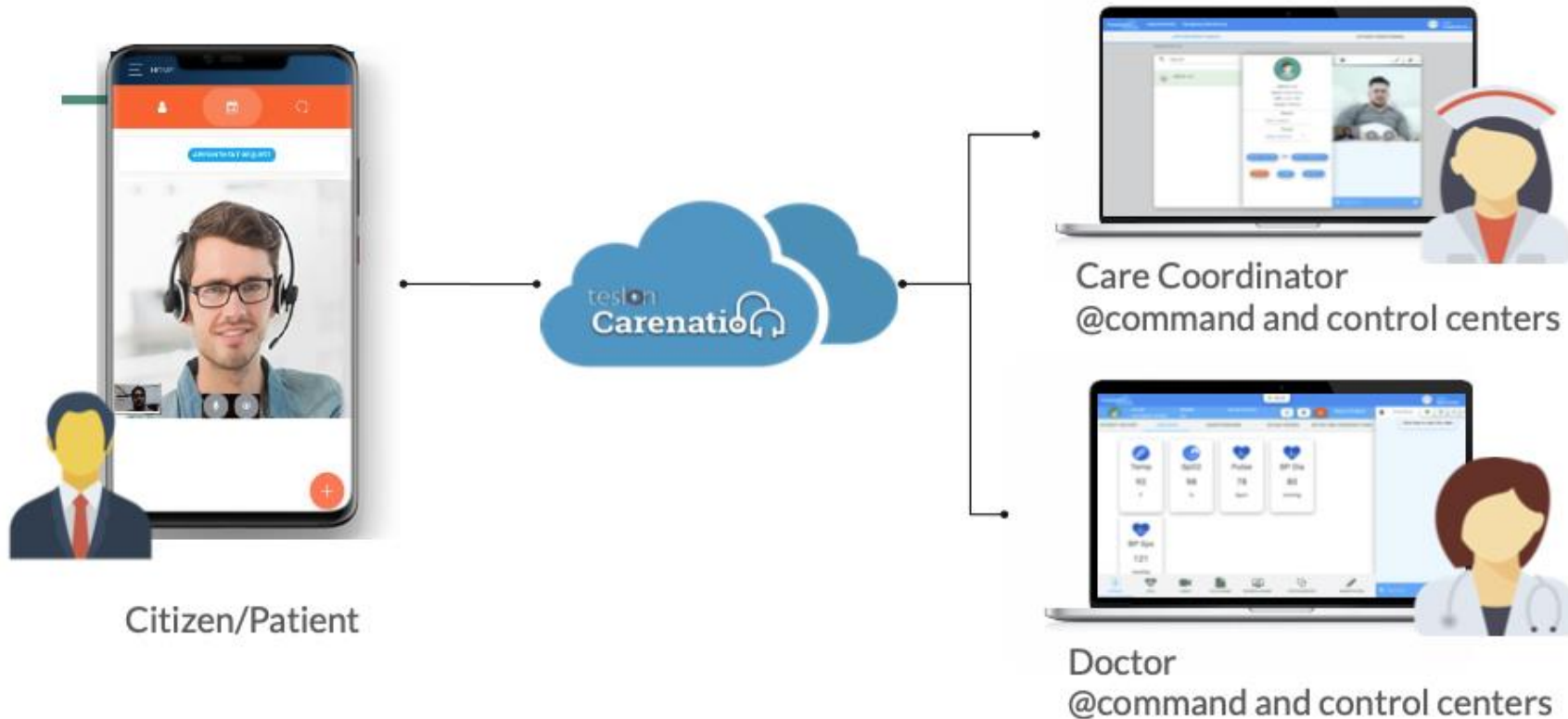


Application of Telecare for Citizens and Residents

All or selected citizens install on iOS or Android mobile phones /tablets an easy-to-use telecare application, customized with the Municipality's logos and in local language, with which they can:

- Remotely communicate with medical consultants (using videoconferencing, chat, email) on an emergency and regular basis
- Register automatically using smart medical grade sensors or manually and send basic health control indicators (temperature, oxygen, pressure, etc.)
- Information on medical issues related to their health status and the care of themselves and their environment. The content can be specialized per category of citizens/patients (young people, teenagers, elderly, diabetics, overweight, etc.)
- There is the possibility of using SMS only for cases of elderly users who are not familiar with smart mobile phones
- There is the possibility of monitoring a large number of patients from a central dashboard





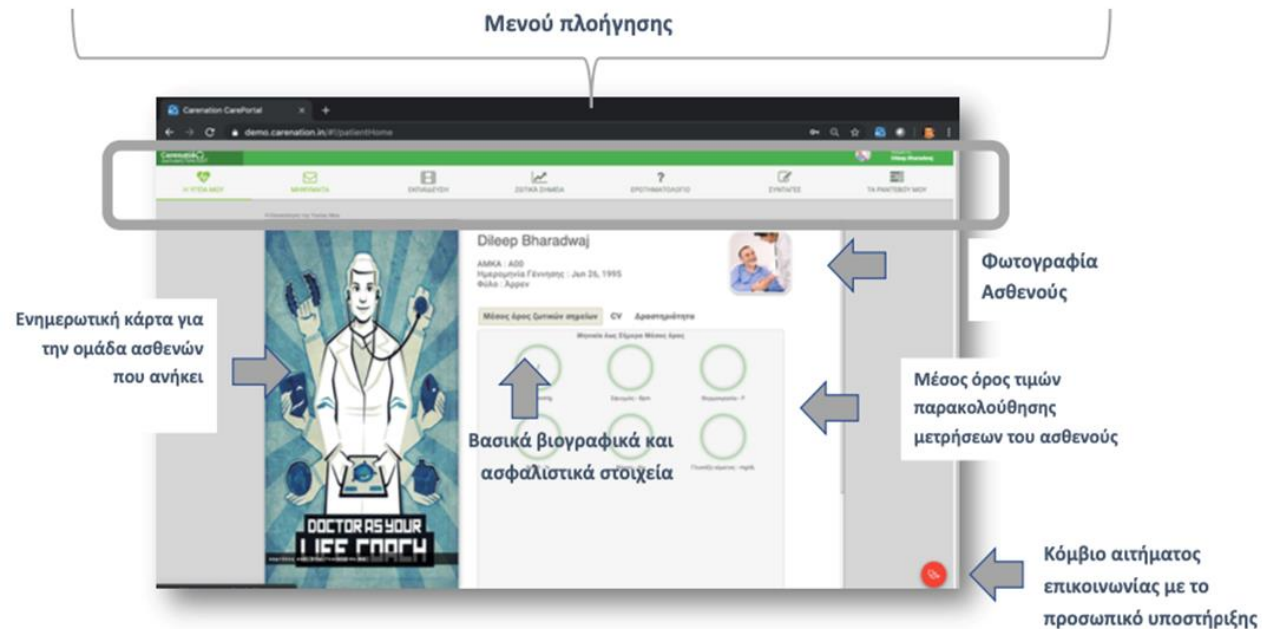
Citizens get in touch with the care-coordinator and doctor with a single tap from where ever they are!

Continuous monitoring application (Patient Monitoring) for patients at home (patients with chronic diseases, high-risk groups, elderly)

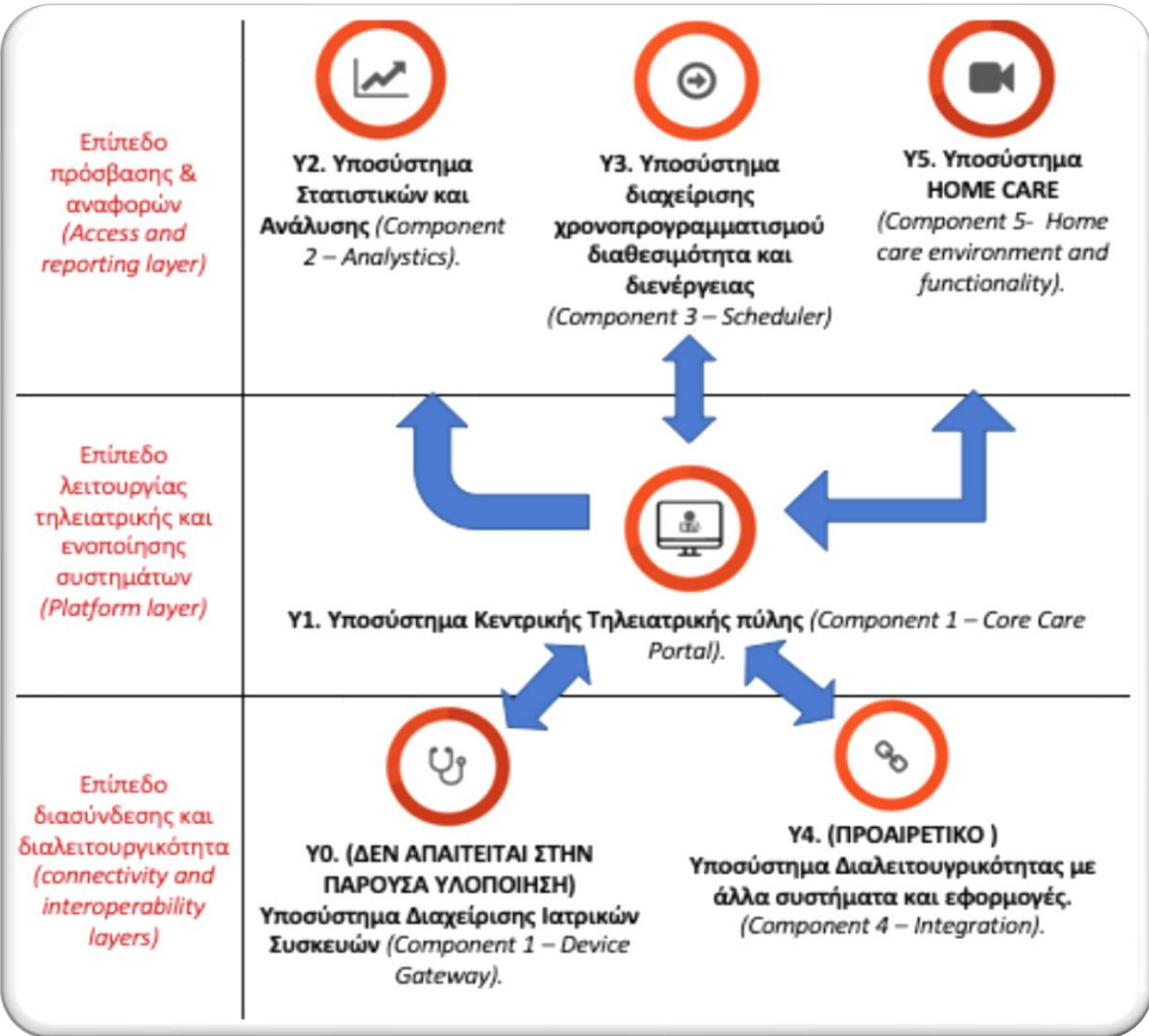
The program involves specific patients who require long-term monitoring on a regular basis. In the patients' homes we install:

- A tablet with a telecommunications connection (WiFi or 4G)
- Medical equipment for monitoring vital signs depending on the condition

1. The capability of remote communication with medical consultants (using video conferencing, chat, email) is provided on an emergency and regular basis. In a very easy way, basic health control indicators (temperature, oxygen, pressure, etc.) are recorded and sent daily for patients under monitoring.
2. Information on medical issues related to their health status and the care of themselves and their environment. The educational/training content can be personalized.
3. The capability of monitoring a large number of patients from a central dashboard is a key feature of the platform.



Continuous monitoring application (Patient Monitoring) for patients at home (patients with chronic diseases, high-risk groups, elderly)



Telemedicine KIT for the Municipality's social services (mobile units)

It is a variation of the previous solution since it concerns the regular monitoring of specific patients at home with equipment provided by the Municipality's social services (Home Help, Community Medicine Programs, Health Visitors)

The backpack of each mobile unit includes:

- A tablet with a telecommunications connection (Wi-Fi or 4G)
- Medical equipment for monitoring vital signs depending on the condition

The possibility of remote communication with medical consultants (using video conferencing, chat, email) is provided on an emergency and regular basis.

Basic health control indicators (temperature, oxygen, pressure, etc.) for patients under monitoring are recorded and sent in a very easy way, while there is the possibility of performing more demanding examinations with endoscopes (rhinoscope, otoscope, etc.).

Capability of monitoring a large number of patients from a central dashboard



Telemedicine KIT for the Municipality's social services (mobile units)

Placement of small or larger telemedicine units in Municipality structures such as:

- ✓ Municipal Clinics
- ✓ Elderly Centers
- ✓ Sports Centers
- ✓ Town Hall and
- ✓ other Social Structures

The Telemedicine Station includes:

- ✓ Teleconferencing system and telemedicine application
- ✓ Medical Instruments
- ✓ Digital security and interconnection infrastructure

A key feature of the system is the provision of remote communication with medical consultants (using teleconferencing, chat, mail) on an emergency and regular basis

The registration and transmission of basic health control indicators (temperature, oxygen, pressure, etc.) for the patients being examined is very easy, while there is the possibility of performing more demanding examinations with endoscopes (rhinoscope, otoscope, dermatoscope, etc.)

The ability to monitor a large number of patients from a central dashboard is provided by the system



thank you

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